










Corrugated Fiberboard, Double Wall Box Specification

40 x 20 x 18 Inches

Press  to see Check List only.

Description	Package ID Number	Packaging Filling Instructions *
Box, Shipping, Regular Slotted Carton (RSC), Corrugated Fiberboard, Double Wall, UN 4G /Y 125/S , Size: 40 x 20 x 18 inches	114-5850	CHK-41

Mfg. Details Per: Packaging Specifications
No. 4GO-620-00
Issue Date: February 1, 2000
Revised Date:

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* For future use.

Company
Name
Here

Packaging Specifications

Double-Wall Corrugated Boxes

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1.0 GENERAL DESCRIPTION

Box, Shipping, Regular Slotted Carton (RSC), Fiberboard, Double-Wall 42/26/42/26/42 lbs /MSF (thousand square feet) Basis Weight construction, B/C flute, 350 pound test board, as UN single packagings, for dry solid product/material.

1.1 United Nations Designation – UN 4G /Y **/ S * [per 49 CFR, ¶178.503]

- 4G** = Fiberboard box.
- Y** = Suitable for Packing Group II and III materials.
- **** = Maximum allowable gross weight in kilograms for which the Box was tested.
- S** = Designation indicates packaging is for solid materials [*or combination packaging*].
- *** = The last 2 digits of the calendar year in which the container was manufactured.

Specific UN Markings are specified in the Purchase Order Description for the referenced package ID number for each specific box, which are the Company "minimum" requirements.

1.2 Size:

Inside Dimensions: Length x Width x Height

[as specified in the Purchase Order Description for the referenced package ID number]

2.0 MATERIAL DETAILS

Box construction must comply with Title 49, Code of Federal Regulations (49 CFR), ¶178.516 (latest edition) for fiberboard boxes, and the following minimum requirements. Manufacturer shall document appropriate quality control on incoming raw material. No significant changes to the manufacturing process or raw material are allowed without prior approval of the Company.

2.1 Double-Wall Box:

Corrugated construction, RSC style, 350 pound test board.

2.2 Linerboard:

3-facings, 42/42/42 lbs./ MSF Basis weight (126 lbs. minimum).

2.3 Corrugating Medium:

2-interleaved, 26/26 lbs./ MSF Basis weight, B/C Flute.

2.4 Manufacturer's Joint:

Glued overlap tab joint [metal stitched acceptable].

2.5 Water Resistance:

The outer surface must have a water absorption rate not greater than 155 g/m² when tested over a 30 minute period by the Cobb method per UN requirements [49 CFR, ¶178.516(b)(1)]. Upon request, the manufacturer must be capable of providing documentation as to the exterior liner board meeting these requirements. Upon request, the manufacturer must be capable of providing documentation as to the exterior liner board meeting these requirements.

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2.6 Closure:

Manufacturer/supplier must furnish the Company, in writing, closure requirements, as performed for the UN design test; per 49 CFR, ¶178.2(c)(1). It must be identified on the closure instructions specifically as to the Company box to which the instructions apply. Ref: ¶9.0 for distribution.

[NOTE: Packages prepared for hazardous materials shipment must be sealed by the same method to be in compliance with the UN markings/certification.]

2.7 Interior finish:

None; natural fiber interior.

2.8 Exterior finish:

Natural kraft exterior linerboard.

2.9 Printing (See ¶5.0, Marking):

Box Size; CATN—(dash) plus last four (4) numbers of package ID number, on bottom panel.

Specific box closure instructions on inside top flap [use of hot melt, glue, tape – size/type, etc.].

The required markings for the UN certification as specified in the Purchase Order Description; and as set forth in ¶1.1 of this specification.

2.10 Cleanliness:

Finished boxes shall be free of ragged edges, loose and/or protruding stitching, dirt, oil stains, or printing smears, and box must be dry.

2.11 Freight Classification:

In addition to the requirements contained in 49 CFR, double-wall boxes must conform to the applicable requirements of Rule 41, of the Uniform Freight Classification (UFC), and Rule 222 of the National Motor Freight Classification (NMFC) and marked with the Manufacturer's "Puncture Test" (Mullen) Certificate (BMC).

3.0 CONTAINER PERFORMANCE CRITERIA

The manufacturer shall successfully test and certify that containers meet or exceed the requirements of 49 CFR, ¶178.600 - 178.608, for Packing Group II. The container herewith specified is to be qualified as **single packagings**, as authorized under 49 CFR, ¶173.212(c).

3.1 Performance Test Documentation:

Upon request, the manufacturer must be capable of providing copies of the performance test documentation for purchased packagings, as required by 49 CFR, ¶178.601(1) for the UN certification marked packaging. Periodic audit copies will be requested under 49 CFR, ¶173.212(c).

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4.0 QUALITY ASSURANCE

The Seller shall assure, and be responsible, that the quality of boxes furnished under this document are of good quality, as pursuant to industry standard manufacturing practices for corrugated boxes, including the materials and/or components used in the manufacturing of the stated boxes.

The Seller shall meet the requirements stipulated in this document, and the specific requirements of the Purchase Order Description for the specific box as specified in the Purchase Order.

4.1 Manufacturer's Certification:

By the act of placing the UN performance criteria markings on each box purchased, the manufacturer acknowledges he has certified, and accepted responsibility, that the stated box design meets or exceeds the U.S. Department of Transportation's UN performance requirements as stipulated in ¶3.2 of this document in accordance with the markings prescribed in 49 CFR, ¶178.503.

In addition, this certification marking acknowledges that the box manufacturer has complied with the specific standards for fiberboard boxes specifically listed in 49 CFR, ¶178.516, including the Cobb Water Absorption Test specifically referenced under 49 CFR, ¶178.516(b)(1).

4.2 Receiver Inspections:

The following inspections will be performed on incoming boxes by a Company designee to determine the boxes meet quality standards and the requirements of this document. However, the Company is not limited to the following inspections to determine quality and specification conformance. Conformance will be indicated by a Y or N in the "Y/N" column, and negative responses documented and processed through the Company's Quality Assurance Program.

NOTE: Checklist for this specification on following page.

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This checklist is to be reproduced for QC Inspections.

Receiver Inspection Quality Control (QC) Checklist for Incoming Corrugated Boxes

QC Conformance >>		Y/N	<< "No's" to be documented in accordance with the Company's QA Program
1	Dimensions (¶1.2)		Stated inside dimensions (from score) are for specified box size.
2	Fiberboard Surface (¶2.10 & 4.0)		Clean, no scuffing, or breaks/cuts in board; corrugation does not protrude past linerboard surface.
3	Scoring/score lines (¶4.0)		Uniform, and sufficient depth to allow clean fold; without distortion.
			No surface breaks in the score lines, when flaps folded.
4	Corrugating Medium (¶4.0)		Medium not crushed within the assembled box.
5	Box Flaps (¶4.0)		When folded along score lines, inside flaps meet, and are square - spacing between exterior flaps no greater than 1/4".
6	Manufacturer's joint (¶2.4 & 4.0)		Glue tab joints securely glued, in alignment with box sidewalls, and no loose edges. No breaking of linerboard at tab joint fold.
7	Box Alignment (¶4.0)		Assembled box and top are square at corners/edges.
8	Markings (¶5.0)		Boxes marked (as a minimum) with specified UN markings, per Purchase Order Description.
			Boxes legibly marked (printed) in accordance with required UN markings, and with boxmaker's certificate for the specified box strength, and Rule 41/222 markings.
			Markings include the manufacturer's identification -- company name or registered symbol (initials or M-number), or test agency code; after USA/. Ref: 49 CFR, ¶178.503(a)(8).
9	Printing (¶2.9)		Printing on the box is of the specified size, is sharp, contains no smears, and is located according to specifications.
			Closure instructions per ¶2.6.
			Length x Width x Height; CATN--last four (4) digits of package ID number on bottom per ¶2.9.
			Closing instructions printed on top flap of box, per ¶2.9.

Package ID Number _____

P.O. Number _____

Total Units Received _____

Inspection Method: Per Company's QA Program

Sample Size _____ [Based on ANSI/ASQC Z1.4-1993]

Non-Conformance Document No. _____

Inspector/Date _____

Additional comments provided on back: ___ check if yes.

The above QC check list shall be accomplished for each order based on random samples of incoming boxes, by QC personnel to determine manufacturer's conformance to these specified Packaging Specifications.

Shipments of corrugated boxes not meeting specified requirements will be returned to the seller for credit.

QC inspections resulting in non-compliance with the Packaging Specification will be cause for rejection of the entire shipment.

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5.0 MARKING

As a minimum, each double-wall box shall be marked in accordance with 49 CFR, §§178.2, 178.3 and 178.503 on the exterior surface of the box. Markings shall have a minimum letter height of 1/2-inch. Markings must include the manufacturer's identification -- company name or registered symbol (initials or M-number), or test agency code, per 49 CFR, §178.503(a)(8).

The UN markings shall be in the upper left-hand corner, on two opposing longest sides.

Length x Width x Height , CATN—(dash) plus last four (4) digits of package ID number and manufacturer's compliance markings on bottom panel. [ex., 10x10x10; CATN-1234]

Specific box closing instructions on the inside top flap per §2.9 of this specification.

6.0 INTENDED USE

Containers (boxes) are intended as **single packagings** for Packing Group II and III hazardous materials in solid form, per 49CFR, §173.212(c). Maximum capacity of the container shall not exceed the tested gross weight, as marked on the box sidewall.

7.0 SUGGESTED MANUFACTURERS

The following list of suggested manufacturers have demonstrated ability to comply to the requirements set forth in this document. However this list does not guarantee current or continued availability as a suggested manufacturer source:

[Enter Suggested Manufacturer\(s\) Here:](#)

The seller must advise the Company prior to any change in the current source (manufacturer) of packaging materials described in these Packaging Specifications.

Any manufacturer that satisfactorily demonstrates to the Company the capability to furnish packaging in compliance with these Packaging Specifications, may be added to the above listing.

8.0 AUTHORIZED CHANGES

Changes/revisions in the requirements specified in this document will only be authorized by the Company

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9.0 DISTRIBUTION OF UN PERFORMANCE TEST REPORTS (per ¶3.1) and CLOSURE INSTRUCTIONS (per ¶2. 6)

A) Closure instructions must be furnished for each initial order, and annually (at the minimum) for each type/size package purchased by the Company to the address below.

B) Upon specific request, UN performance test documentation for each specified order/shipment will be submitted directly to the Company at the address below.

COMPANY NAME AND ADDRESS (enter information below)